

5 GTCACCTTCCT TCTCGTCATC CTGATGGAAC AAAAGTATAC AAAAACCGAG CTCTCAGGAC 180  
ACCTTTTAAA AAATCTGGTT CCACATCATC AGTAAAAATG GAGATTGATG ATCCTGAAAT 240  
ACAAGCAGTT GAGTTTCTCA TATTTGACGA GTCAGAAAAC AAATGGTTTA AACATAATGG 300  
TCAGAATTTT CATGTCCAGT TATTAAAACA GGGCTATCAA AATCAAAATG TTTTGGCCTC 360  
10 TGTAAATCCA AATGTTTCAC TGCCANAAAG AACTTGTGCA GATTCAAGCT TATCTTAGGT 420  
GGGANANAAA GGGTAGGCAA ACATATACAC CTGATCAAGA AAAGGATGAG TNTGAAGCAG 480  
CTANAACCTGA GTTTGCTANA AAAACTAAGT NNAAGTACTT CTGTANANGA NCTCCGATCT 540  
15 AAATTGACAA AAAACNCCAC TGCTGGAGCG GACAAATCCG TCAAAGTTGA AACTATCAAA 600  
AGTGGGATCC GGATGATCTT NTGCAAGTTA CANGCATACT TCCNATNGGA AAAACCGGGA 660  
20 AACCATNTTA TCCCCNGAA AAACACTNAT GGAATTGAAG AAACCAGGGA AANACTGCCC 720  
ATGAATTAAA TAAANGAACN CNCCTNCAAA CTNAGGGAA 759

(2) INFORMATION FOR SEQ ID NO: 34:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 785 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:  
(B) CLONE: U-U70

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 34:

GGCACGAGAG AGAGAGAGAG AGAGAGAGAG AGAGAGAGAG AGAGAGAGAG AGAGAGAGAG 60  
45 AGAGTAATCG ATTTAGCGTG CAAAGTACTG CAGCAGAAGC CATGGCATCC ANGGCCTCAG 120  
CNTCGGCTGC CCTCTTCCTT GCTCTCAACC TTGTCTTCTT TGCACTCACC AGTGCTTGTTG 180  
GCACCACTTG CACCCCCGCC ACTAAGCCCC CACCGAGCTC TTCCCATGGC AAATGCCCCG 240  
50 TCGACACCCT CAAGCTGGCC TCCTGCGCCA ACGTGCTCAA TGGCCTGATC NNGGTCGGCG 300  
TCGGCAAGCT CCCGAAACAG CCGTGCGAGT GCTGCNCTCT GCTCGATGGC CTCGTCGACC 360  
TCGAGGCCGC CGTGTGCCTT TGCNCTGCTA TCANGGCCNA TGTCTTGGC ATTCATCTCA 420  
55 ACCTCCCCAT CNNCTTCAGC CNTCTCCTCA ACTACTGCGG TNAGAAGGCT CCCACCGGTT 480  
TCCAGTGCCC TTGAGCTCCC CCTGCGGATC ACATCNTCGA TCCTCTTTGC CCGTGGTGAA 540  
60 TTTTNTTGAG CATTCTTTG TGTCTTACT TCCCTTTGTT TTTGGCTTTT TGATGACGAA 600  
AGTGTTGAGT GTTGATATGA AGGGCCANTG GCGCTTTCNT GTTAATGTTA CCTGTCNTTC 660  
65 CCTTTTATT TCCACNNCTT GTTGANTTTC CCTCTCGGGT TTGTTAATGA AGATCNATGC 720  
ATTCAATTNT TAATATTCTT GCTGCCTTCC AANAAAAAAT ANNANTNCCT CCNNGAANTC 780  
TTCTT 785

(2) INFORMATION FOR SEQ ID NO: 35:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 784 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: cDNA

- (vii) IMMEDIATE SOURCE:  
(B) CLONE: U-U16

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 35:

CGGCACGAGG AAANGACNAG CGATGGCAGC AGAATTGTCT CCCACGCTGA GCAAGAGCAT 60  
CTTTGAAGGA GCCGGTGGAT CTTACTCTAC TTGGTCAGGT GCCGATCTCC CCCTTCTTAC 120  
TGATGCAAAG CTCGGCGGAG GCAAGCTTGT CCTGAAACCA CTGGGCTTGG CGTTGCCTCA 180  
CTATCCGAC TCATCGAAAG TCGGCTATGT TCTTGAAGGA AGAGCGGTGG TGGGGCTAAC 240  
ACTCTATGGA GAGACCGAGC AGAGGATACT GCTGCTTGAG AAGGGAGATG TGGTAGCGGT 300  
GGTCATGGGG AGCCTCACGT GGTGGTACAA CGAGGAGGAG GACTCCGACT TCTCCATCGC 360  
CTTCTTAGGC GATACCGCGA CAGCTGTGCG ACCGGGCGAC ATCGCCTACT TCTTCTTGGC 420  
AGGATCCCTA GGAGTGCTCC ATGGCTTTTC GACGGAATTC CTCANCAGGG CCTGCGGTAT 480  
AAGGGATGCG GAANCTGAAG AGCTCTTCGG AAGCCAACCT GGTACTCTAA TCATCNCAC 540  
GCANCAAAAG CTGCCTGGCC TCANAAGCAT CCCGAGCTTG ACNGCGAAGG GATAGTCNTN 600  
AACNCTNANC GCGTTNCGGC ATATATCAAT GTNAANAGTG GTGGCTGTGC TCGGTCCGTG 660  
ACACTTNATG AACTGGCCGC GCTGGGAAGA TCTGTTCTCC GTCNAACTCA CCANANTCNA 720  
ACCTAACCCC NTNCNCTTCC NGGGTTCTCC TTNATGCACT NTGCNCCTAT TTNTTTCCTCA 784  
ANGC

(2) INFORMATION FOR SEQ ID NO: 36:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 817 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: cDNA

- (vii) IMMEDIATE SOURCE:  
(B) CLONE: U-U30

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 36:

CGGCACGAGA TATGGAGGTA TGATCGGGAG CTA CTGGGAG CTCCGCTTTG GTGAACAACA 60  
CGACGGCAAG AAGGGCTATG GATTCAAGGA GTGAAGGCCA TGGTACCGCA NAGGCGGGTC 120  
TTCCGGGCGT GCACCGAATT TTGCATCGGA TGAAAACCTT GGTCATCAGC ATATGGGGGC 180  
TGGGTTCCAC CAAGGGAAAA GTTCGAATGC AAGTACCACT GAGTCCCCTG AGAGGGACTT 240  
GATCATGCAG AGGTATGATC GAAGCAGCTG GAGANTTGA CTGCTCCANA GCTCATATTC 300

GCTTAAGGGA GCCCGACAAG TCAGAGGACA AGGTCGAGTA AGCGAACGTT GCTACCCAAA 360  
ATCAAGCATC AGTTANAATG GAGGTGGACT CANAGGAGTG CCACGGAAGA CATCTCTACT 420  
5 GATTGTGAAG GAAAGGGATA CAGAGGCGAA NCGACGGATA NTANGGCCAT GGGCATGGCA 480  
GCGCCATGGT ACCGCANANG CGGGACTTCC GTGCAAGTCA TTGATCCCTT GCTCTCACGG 540  
10 AGGGANANCG CTTGGTCTTG AAAGGGGCCN AAGAAGTGGA CATGCANANG CAATCTCCAA 600  
TTACCGAAAC ANGGCTGAAG GGCANAAGCC NANAACTTC CTNAGAACGG TGTCAACAAT 660  
TTCTCATCNA NATANCCGTA ATTAANGACT TCCGGTCATG CNANAATNCC CNACCNANGA 720  
15 ACCAANCAGG CNTACTTGTG CTGTNCTTTG CTACCCNNTG AATNGCGCCN GGTTNATNGA 780  
AAAAACGTCC TTCCCCAAGC AACCCTCTNT CAAAAAN 817

(2) INFORMATION FOR SEQ ID NO: 37:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 837 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: cDNA

- (vii) IMMEDIATE SOURCE:  
(B) CLONE: U-U40

(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 37:

TTTTTTTTTT TTTTTTTTGG GTATCAGGCA AAGATGGATA CTTCCAGGTT TGCTATTTAA 60  
40 GAACCATAGT CAGTCTTATG AGGAGAGACC ATACGTAATA CAATCTTTAA GATGACAAAA 120  
TCCATTCCCTA CCAATACAAT GACCAAGCGA AAGGTACAAG GATAACGGGC AAAAGACTAA 180  
45 ATTGCAACTA TATAAAATTC TGCTGCATTG TAGTAAATTC AACTGTGACG ACACGCCACC 240  
AGGATGAAGT CTATCTATAA ACCCACTTAT TGCTAGATGG ACGGTGTAAC AGAGCTAAAA 300  
CAGCAAAGTA GAATAAAAGA AACTGACAAC GCTTCCGCAT GCGCTCCACA TATGGAGCCA 360  
50 GCGGGAGGTT GGGCAATTGG AGGAAATGAC NTTTCTGACG GTGTAACATA AAANAAATTT 420  
GTAACACCGT CAAGTACGAT TTCCCATCCT TCGGGTTGTG GCGTTCTGCT ACTTGGCATT 480  
ACGTTAACAT CGAGTGCCGA CTTGGCAAGA CAGGACCCCA GCATCAGAAG TCAGTGTGTC 540  
55 AACCAAGGAA GAAGGCTTGG CCCCAGAGCT GGAGGCCCGT GCGTAACTGG CTGAACCCCT 600  
GCACCGGAAN GGGTGAAAAA AGCACCATTC AGAACAGGTC NCCTCCGACC TCCCAATTCC 660  
60 AGTTCTTCCA CCNTGCTTTT GATCTGTGTC CACCTTTTTG TTACCTATTC CATCGAAGCN 720  
TANGGATTTT TAAAAATCCC GAAGGAAAGG AANTTCNAT AATTGGTGCN CCAAANAAGG 780  
AAGATGGACN GAACTGTTGT TGGTTGCTCC TGTCTCTCCT TTGCAATGGA TTGGTCG 837

(2) INFORMATION FOR SEQ ID NO: 38:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 799 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single